

CITY OF MINNEAPOLIS

Stormwater Management Program and Annual Report to the MN Pollution Control Agency for National Pollutant Discharge Elimination System (NPDES) 2015 Activities

City of Minneapolis & Minneapolis Park
and Recreation Board, Co-Permittees



June 7, 2016



Stormwater Management in Minneapolis

- Federal Clean Water Act - 1972
- National Pollution Discharge Elimination System (NPDES)
 - Industrial
 - Construction
 - Municipal



Minnesota Pollution Control Agency





Cuyahoga River, 1969
Photos: Ohio Historical Society

Plain Dealer file: Former reporter Richard Ellers says he didn't appreciate the thickness of the pollution on Cuyahoga River until he dipped his hand into it. The photo was taken in the 1960s.



Minnesota Pollution Control Agency



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Stormwater Management Program

- Highlights Include:
 - Educate the public and city staff
 - Detect and eliminate illicit discharges
 - Implement requirements for development projects
 - Control erosion from construction sites
 - Control pollutants from municipal operations
 - Construct and maintain public facilities that remove pollutants
 - Monitoring
 - Coordination and cooperation with other entities

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Minneapolis Park and Recreation Board

- Public education
- Pesticides and fertilizer control
- Water quality monitoring
- Urban forestry



Public Education Earth Day Clean-Up



Earth Day volunteer sign-in at Lake Calhoun



Earth Day volunteers at Shingle Creek





Mississippi River Green Team



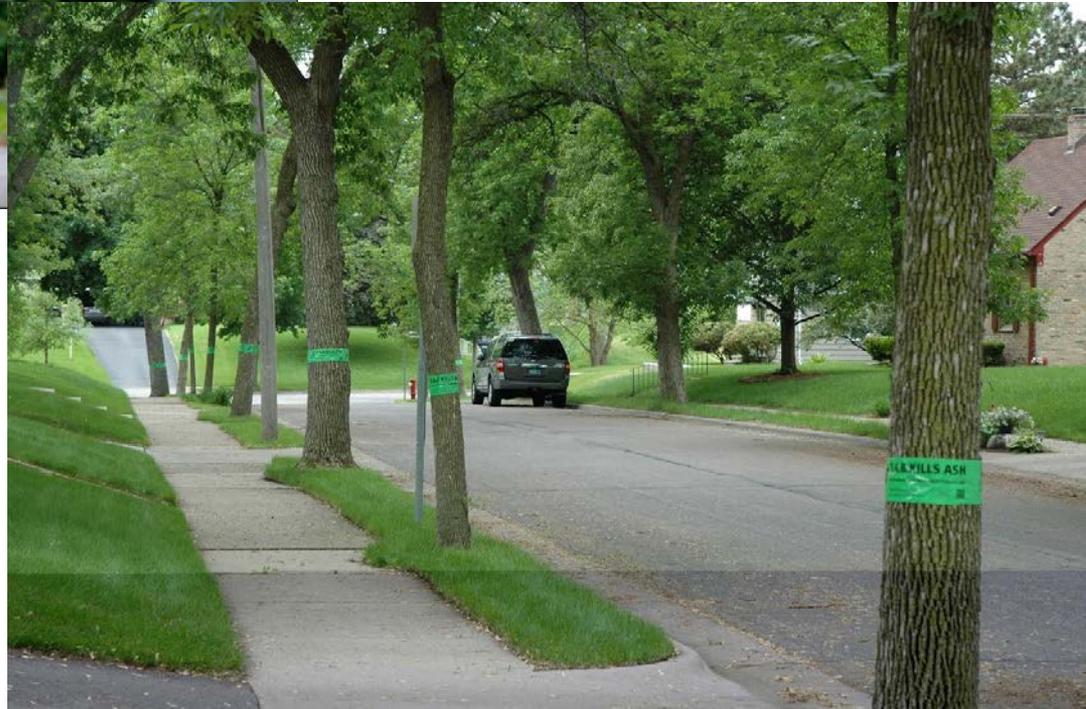
37th Ave North Greenway





• <http://www.mndragonfly.org/>

Pesticides and Fertilizer Control





Camden Pond Vegetation Management - Burning

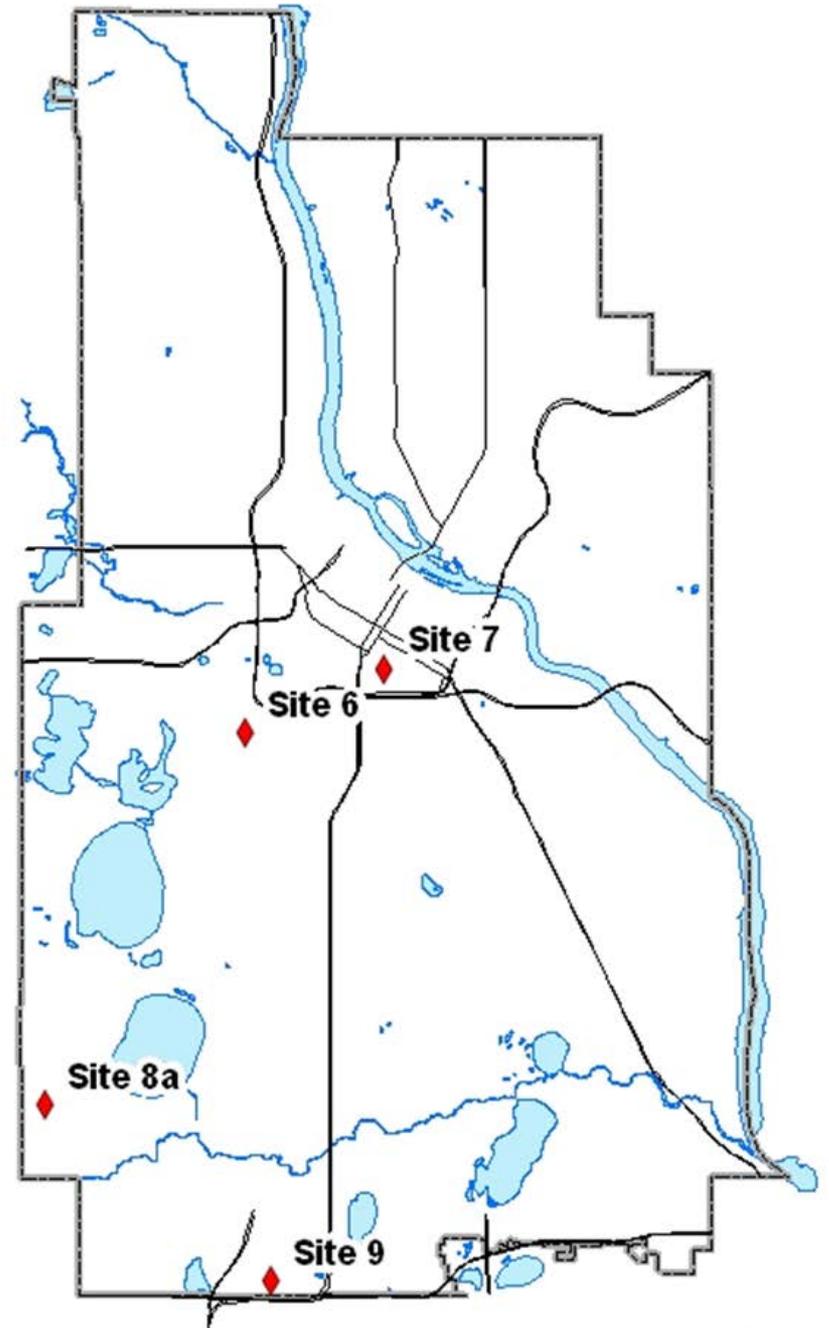


Camden Pond – 1-Day Post Burn



Camden Pond One month after burn

Monitoring



Monitoring



37th Ave North Greenway Iron Enhanced Sand Filter Monitoring Sites

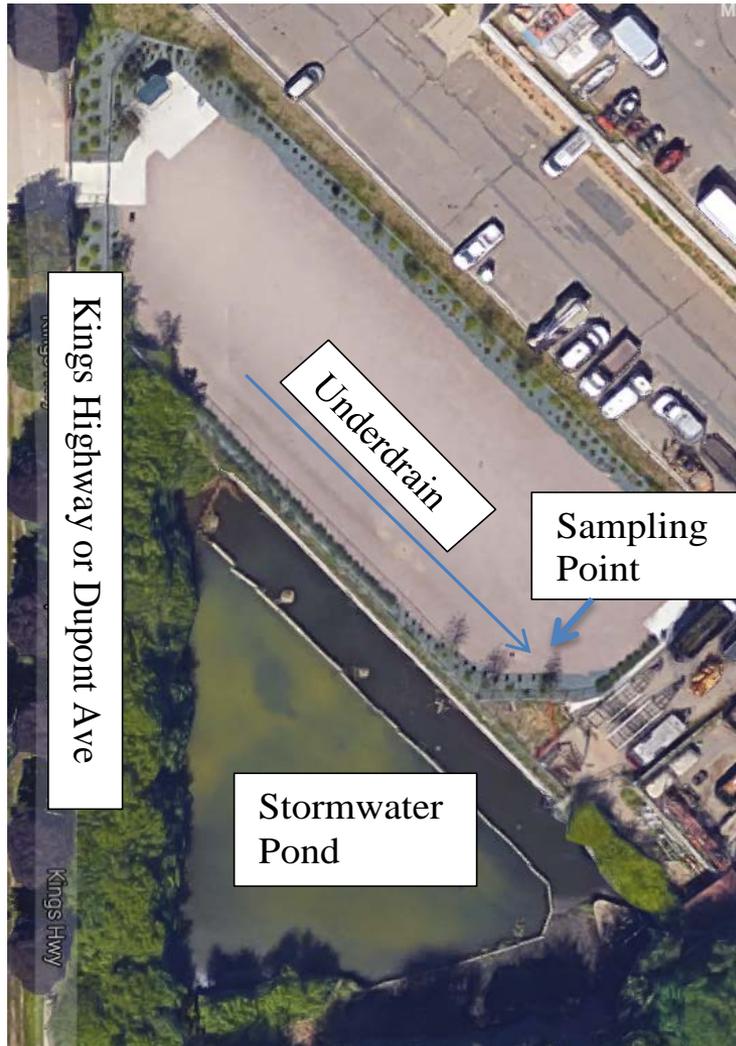


Alley Monitoring Site installed



Cement shop drilling access holes and anchors

Monitoring



Collecting bacteria grab samples

Monitoring

- Future Monitoring Efforts:
 - Macroinvertebrates (bugs)



Metro Blooms







- <http://www.minneapolismn.gov/publicworks/stormwater/stenciling>

New Initiative

- Adopt a Drain program
- www.minneapolismn.gov/AdoptADrain



Help keep our natural waterways clean

With its lakes, creeks, waterfalls and the Mississippi River, Minneapolis prides itself on natural water.

A big part of protecting our waterways is right on our streets. Leaves, dirt, garbage and anything that gets left on the street can wash down storm drains and go untreated into our lakes and the river.

When it rains, stormwater carries grass clippings, leaves, cigarette butts, pesticides, fertilizers, antifreeze, paint, gasoline, motor oil and animal waste directly into Minneapolis lakes, creeks and the Mississippi River.

How can you help?

Sign up for the Minneapolis Adopt a Drain program, and commit to clearing leaves and trash from it regularly.

Never put anything down a storm drain. It's for rain and melting snow only.

Be a champion and spread the word with your neighbors.

Learn more or sign up by calling 311 or going to www.minneapolismn.gov/AdoptaDrain.



Public Works
Call 311 or visit
www.minneapolismn.gov

If you need this material translated or in an alternative format, please call 311.

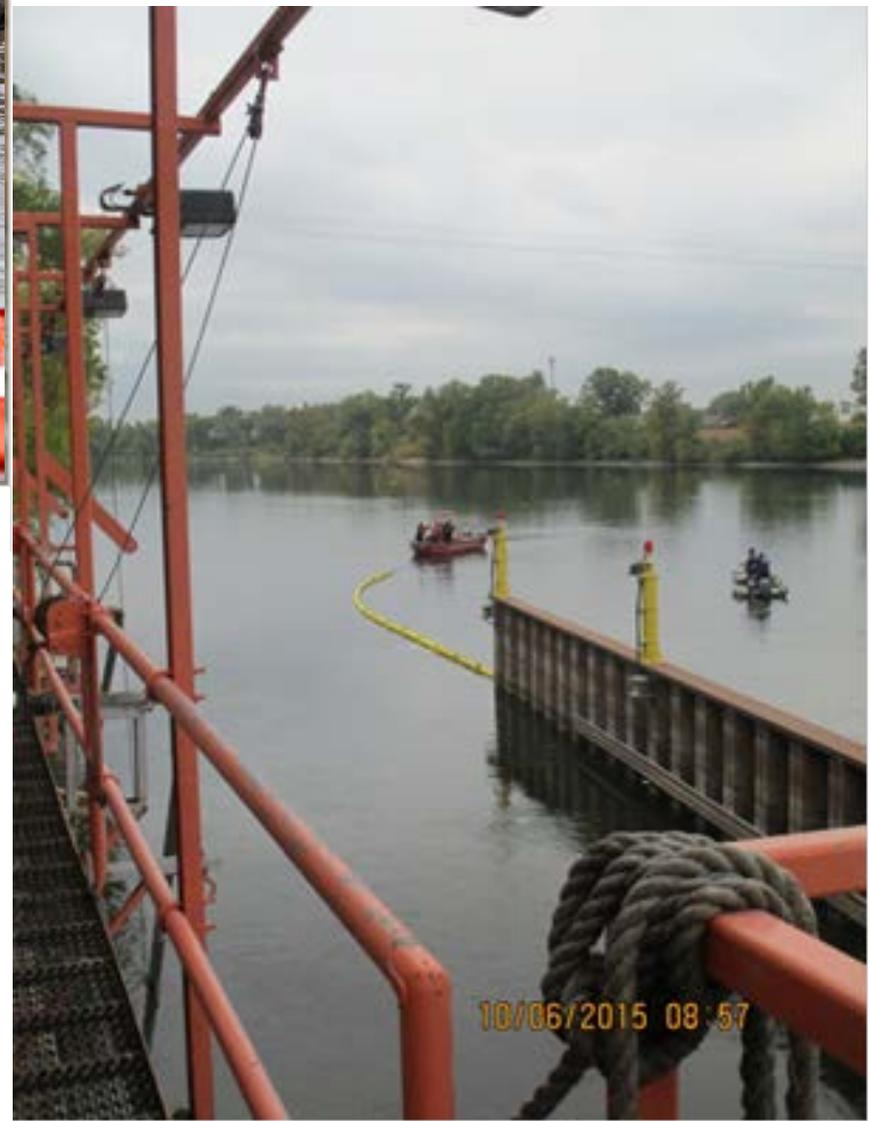


Detect and eliminate illicit discharges





2015 Boom Deployment Drill



2015 Boom Deployment Drill



Minnesota Pollution Control Agency



Watershed Organizations



**MINNEHAHA CREEK
WATERSHED DISTRICT**



Watershed Management Commissions



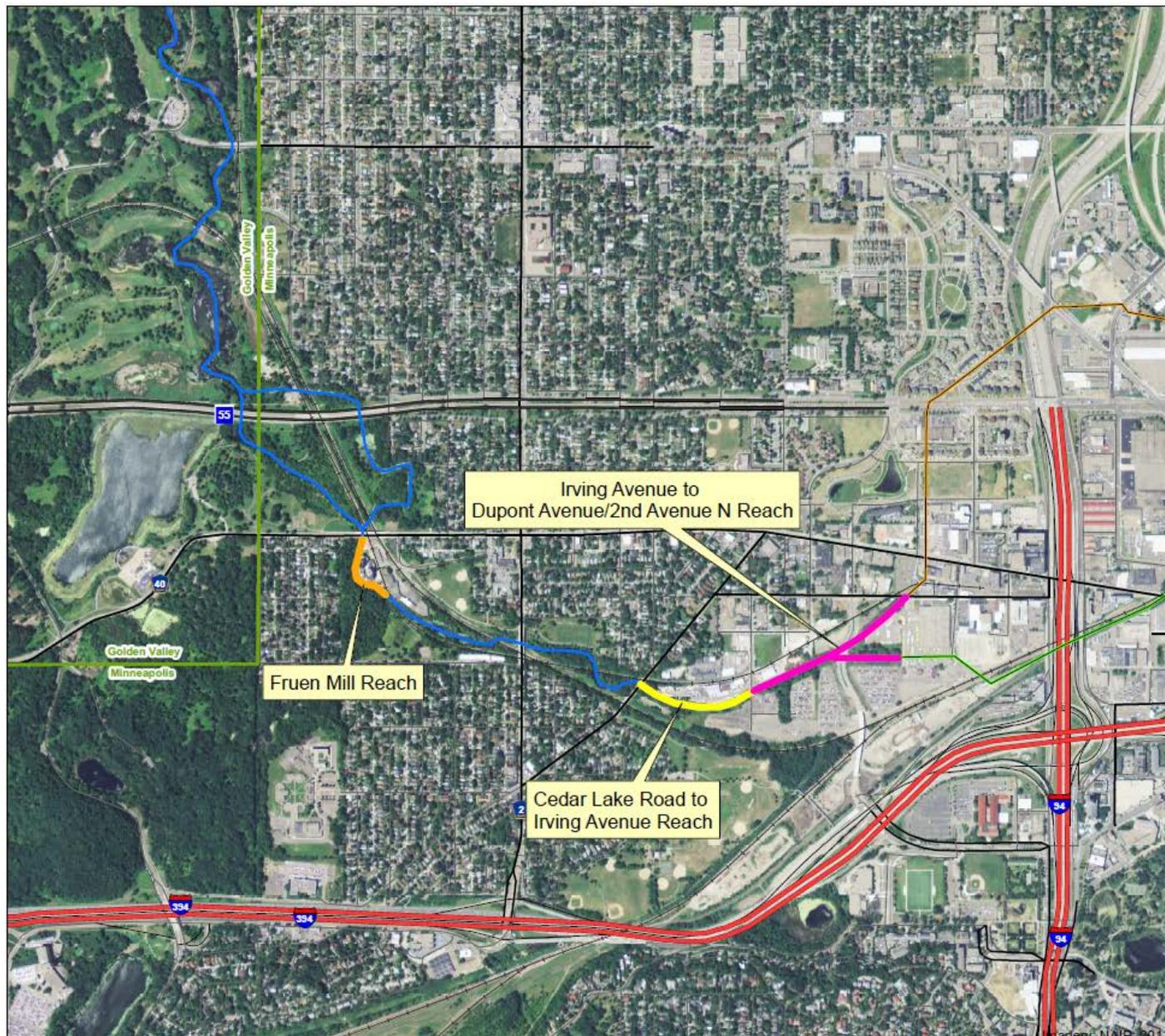
Bassett Creek WMO

2012 Bassett Creek Project



Before

After



- █ Cedar Lake Rd to Irving Ave Reach
- █ Irving Ave to Dupont/2nd Ave Reach
- █ Fruen Mill Reach
- █ Stream
- █ Old Tunnel
- █ New Tunnel

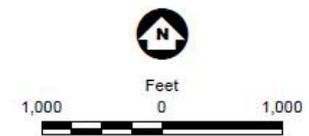
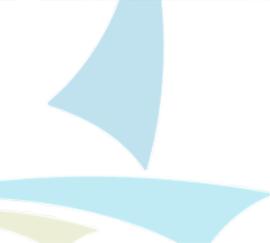


FIGURE 1
BASSETT CREEK STUDY REACHES
 Bassett Creek Feasibility Study
 Bassett Creek Watershed Management Commission

Bassett Creek WMO

Bassett Creek Project – Next Phase



Thank you



MINNEHAHA CREEK
WATERSHED DISTRICT



Questions?



MINNEHAHA CREEK
WATERSHED DISTRICT

